

VERSION WITH MARKINGS TO SHOW CHANGES MADE

1. (amended) A method of screening *in vitro* for modulators of [G-protein coupled receptor signal transduction] RDGC GPCR phosphatase activity, the method comprising the steps of:

- (i) providing a sample comprising a G-protein coupled receptor and an RDGC phosphatase;
- (ii) contacting the sample with a test compound suspected of having the ability to modulate RDGC GPCR phosphatase activity; and
- (iii) detecting RDGC GPCR phosphatase activity in the sample.

15. (amended) A method of screening *in vivo* for modulators of [G-protein coupled receptor signal transduction] RDGC GPCR phosphatase activity, the method comprising the steps of:

- (i) providing a sample comprising rhodopsin and RDGC phosphatase;
- (ii) contacting the sample with a test compound suspected of having the ability to modulate RDGC GPCR phosphatase activity; and
- (iii) detecting RDGC GPCR phosphatase activity in the sample.

24. (amended) A method of screening *in vivo* for modulators of [G-protein coupled receptor signal transduction] RDGC GPCR phosphatase activity, the method comprising the steps of:

- (i) providing an animal comprising a cell comprising a G-protein coupled receptor and an RDGC phosphatase;
- (ii) contacting the animal with a test compound suspected of having the ability to modulate RDGC GPCR phosphatase activity; and
- (iii) detecting RDGC GPCR phosphatase activity in the animal.

33. (amended) A method of screening *in vivo* for modulators of [G-protein coupled receptor signal transduction] RDGC GPCR phosphatase activity, the method comprising the steps of:

- (i) providing an animal comprising a cell comprising rhodopsin and RDGC phosphatase;
- (ii) contacting the animal with a test compound suspected of having the ability to modulate RDGC GPCR phosphatase activity; and
- (iii) detecting RDGC GPCR phosphatase activity in the animal.

37. A kit for screening for modulators of [G-protein coupled receptor signal transduction] RDGC GPCR phosphatase activity, the kit comprising:

- (i) a container holding a G-protein coupled receptor and RDGC phosphatase, wherein the RDGC phosphatase has GPCR phosphatase activity; and ;
- (ii) instructions for assaying for RDGC GPCR phosphatase activity.